



SPYWOLF

Security Audit Report



Completed on
July 28, 2023



OVERVIEW

This audit has been prepared for **MuratiAI** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





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MuratiAI



PROJECT DESCRIPTION

According to their whitepaper:

MuratiAI aims to solve the problem of creating high quality anime content by providing a decentralized platform that enables artists and creators to generate anime-focused images and videos using artificial intelligence.

The platform utilizes a deep learning algorithm to generate high-quality images and videos that mimic the style of traditional anime.

Release Date: Launching July , 2023

Category: AI token



CONTRACT INFO

Token Name
MuratiAI

Symbol
MURATIAI

Contract Address
0x69C2fcAe7e30b429166BD616A322e32BeC036bCf

Network
Binance Smart Chain

Language
Solidity

Deployment Date
Jun 27, 2023

Verified?
Yes

Total Supply
100,000,000,000

Status
Not launched

TAXES

Buy Tax
3%

Sell Tax
3%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	99999999999.99998 MURATIAI
Median Transfer Amount	99999999999.99998 MURATIAI
Average Transfer Amount	99999999999.99998 MURATIAI
First transfer date	2023-06-27
Last transfer date	2023-06-27
Days token transferred	1

SMART CONTRACT STATS

Calls Count	7
External calls	7
Internal calls	0
Transactions count	1
Uniq Callers	6
Days contract called	1
Last transaction time	Jun-27-2023 03:14:47 PM +UTC
Created	Jun-27-2023 03:14:47 PM +UTC
Create TX	0x3a73f1bab82952d520f098557451d6a212070c2a006cfd08310b7c203676e15b
Creator	0x1A73A7A1d631e15E64FAAbE5113Ba03AA0e229E8



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

High Risk

No high risk-level threats found in this contract.

Medium Risk

No medium risk-level threats found in this contract.

Low Risk

No low risk-level threats found in this contract.



Informational

Owner can withdraw any tokens from the contract except the native MURATIAI token.

When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function claimStuckTokens(address token) external onlyOwner {
    require(token != address(this), "Owner cannot claim contract's balance of its own tokens");
    if (token == address(0x0)) {
        (bool success,) = msg.sender.call{value: address(this).balance}("");
        require(success, "Claim failed");
        return;
    }
    IERC20 ERC20token = IERC20(token);
    uint256 balance = ERC20token.balanceOf(address(this));
    ERC20token.transfer(msg.sender, balance);
}
```

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeFromFees(address account, bool excluded) external onlyOwner{
    require(!_isExcludedFromFees[account] != excluded, "Account is already the value of 'excluded'");
    _isExcludedFromFees[account] = excluded;

    emit ExcludeFromFees(account, excluded);
}
```



Informational

Owner can set buy/sell/transfer fees up to 10%.

Combined buy+sell = 20%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.

Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function setBuyFee(uint256 _buyFee) external onlyOwner {
    require(_buyFee <= 10, "Buy Fee cannot be more than 10%");
    buyFee = _buyFee;
    emit BuyFeeUpdated(buyFee);
}

function setSellFee(uint256 _sellFee) external onlyOwner {
    require(_sellFee <= 10, "Sell Fee cannot be more than 10%");
    sellFee = _sellFee;
    emit SellFeeUpdated(sellFee);
}

function setWalletToWalletTransferFee(uint256 _walletToWalletTransferFee) external onlyOwner {
    require(_walletToWalletTransferFee <= 10, "Wallet to Wallet Transfer Fee cannot be more than 10%");
    walletToWalletTransferFee = _walletToWalletTransferFee;
    emit WalletToWalletTransferFeeUpdated(walletToWalletTransferFee);
}
```

This token is with ever increasing holders as there will be always fraction of token left in holder's address.

```
function _transfer(address from,address to,uint256 amount) internal override {
    .....
    if (!_isExcludedFromFees[from] && amount == balanceOf(from)) {
        amount -= 1;
    }

    if (amount == 0) {
        super._transfer(from, to, 0);
        return;
    }
    .....
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

MuratiAI

GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract
- ✓ The owner cannot set a transaction limit



There is no information about the initial tokens distribution based on the project's whitepaper and/or website.

TOKENOMICS



THE TEAM

! The team is anonymous

KYC INFORMATION

No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL

<https://muratiai.com/>

Domain Registry

<https://regtons.com>

Domain Expiration

2024-02-27

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Very nice design with appropriate color scheme and overall layout.

Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper

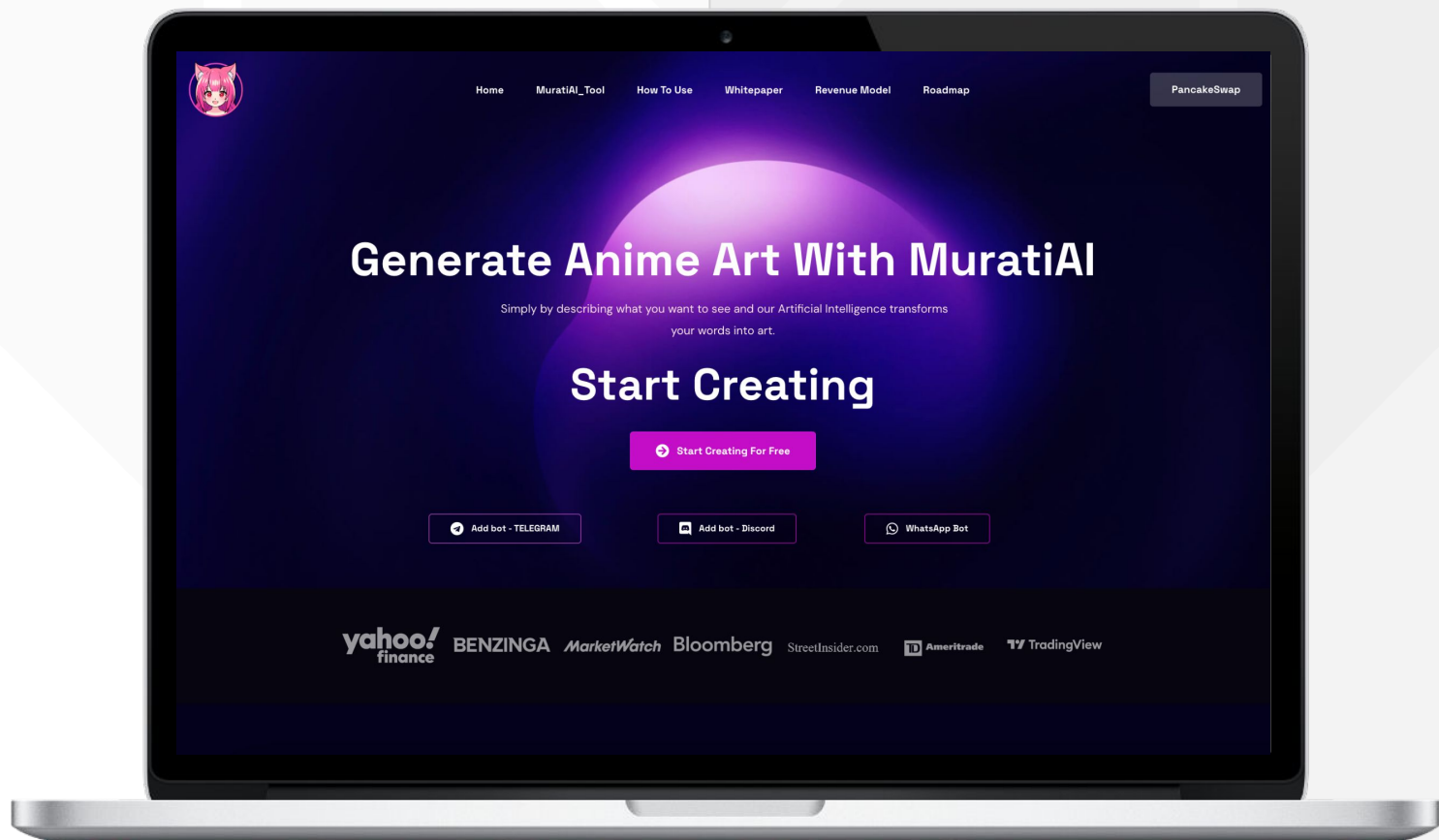
Well written, explanatory.

Roadmap

Yes, goals set without time frames.

Mobile-friendly?

Yes



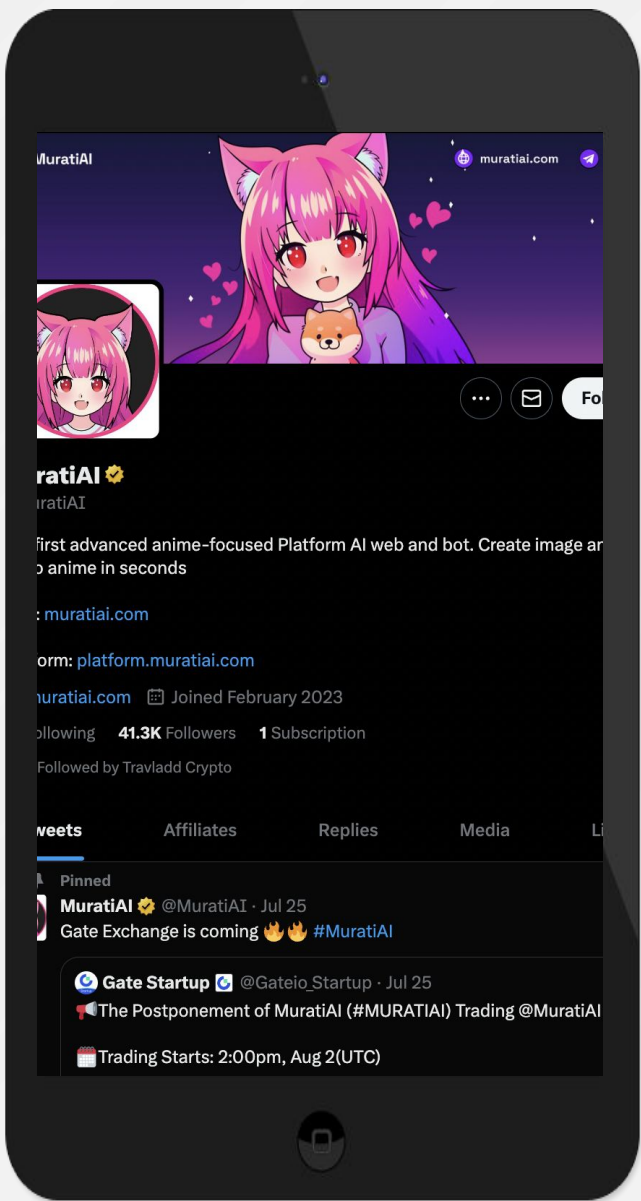
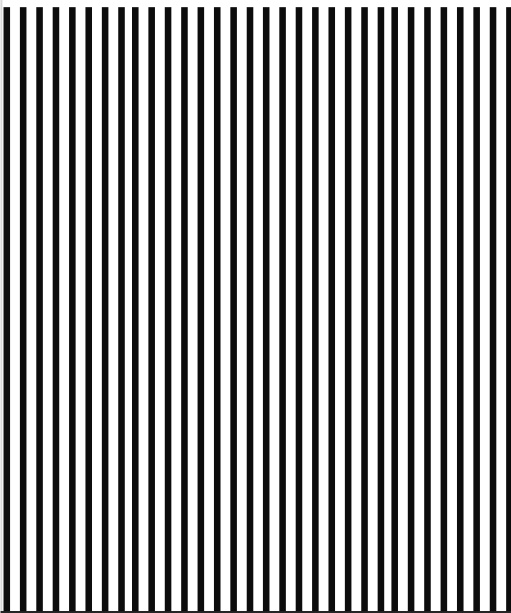
muratiai.com



SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS
Project's social media
pages are active



Twitter
@MuratiAI

- 40 600 followers
- Posts frequently
- Active



Discord

- Not available



Telegram
@muratiAI

- 26 804 members
- Active members
- Active mods



Medium
@MuratiAI

- 6 followers
- 1 article



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 500 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

To hire us, reach out to
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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.